

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/DK2006/000340

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> INV. C12P19/04 A61P31/00 A61P35/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) C12P A61P		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, EMBASE, WPI Data		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WASSER: "Medicinal mushrooms as a source of antitumor and immunomodulating polysaccharides" APPLIED MICROBIAL BIOTECHNOLOGY, vol. 60, 2002, pages 258-274, XP002402437 * See page 258 (left column), page 261 (Table 1/Agaricus), page 263 (Table 2/Agaricus), pages 268-269 (A. blazei), and pages 270-271 (Conclusions) * ----- -/--	1-324
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the international search  16 October 2006		Date of mailing of the international search report  02/11/2006
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer  Korsner, Sven-Erik

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SHU ET AL: "Effects of culture pH on the production of bioactive polysaccharides by Agaricus blazei in batch cultures" JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol. 79, 2004, pages 998-1002, XP001235865 * See page 998 (Introduction) and page 1001 (left column); early on-line publication *	1-324
Y	SHU ET AL: "Monitoring the polysaccharide quality of Agaricus blazei in submerged culture by examining molecular weight distribution and TNF-alpha release capability of macrophage cell line RAW 264.7" BIOTECHNOLOGY LETTERS, vol. 25, 2003, pages 2061-2064, XP002402490 * See page 2061 (Introduction) and page 2062 (right column).*	1-324
Y	WO 03/020944 A (MEDIMUSH) 13 March 2003 (2003-03-13) * See pages 5, 11-12 (Agaricus blazei) *	1-324
P,Y	WO 2006/007848 A (MEDIMUSH A/S) 26 January 2006 (2006-01-26) * See page 7 / Agaricus bisporus and Agaricus blazei *	1-324
P,Y	US 2006/013825 A1 (KRISTIANSEN) 19 January 2006 (2006-01-19) * See [0033] / Agaricus bisporus and Agaricus blazei *	1-324
P,Y	FAN ET AL: "Effect of nutritional and environmental conditions on the production of exo-polysaccharide of Agaricus brasiliensis by submerged fermentation and its antitumor activity" LWT, vol. 40, 20 October 2005 (2005-10-20), pages 30-35, XP005582762 * See pages 30-31 (Abstract and Introduction); early on-line publication *	1-324

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### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/SA/ 210

Continuation of Box II.1

Although Claims 312-320 are directed to a method of treatment of the human/ animal body, the search has been carried out and based on the alleged effects of the compound.